Canada's Forests 1972

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Forest Economics Research Institute

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World forestry data

	Area of Productive Forest[1] '000,000 acres[4]	Growing Stock[2] '000,000,000 cu. ft.[4] Conifers	Non-Conifers
North America	1,028	1,165	388
Canada	*554*	*671*	*176*
United States	*474*	*494*	*212*
Central America	126	7	21
South America	741	18	2,720
Africa	692	4	131
Europe	299	268	152
U.S S.R.	1,730	2,331	459
Asia	815	212	388
Pacific Area	119	14	120
World Totals	**5,550**	**4,019**	**4,379**

	Roundwood Production[3] Average 1966-69 '000,000 cubic feet Industrial	Fuelwood
North America	14,427	998
Canada	*3,667*	*172*
United States	*10,760*	*826*
Central America	327	1,032
South America	1,248	6,817
Africa	1,148	7,785
Europe	8,537	2,562
U.S S.R.	10,049	3,344
Asia	5,102	9,383
Pacific Area	668	267
World Totals	**41,506**	**32,188**

[1] Excludes unstocked and unclassified forest lands and protection forests.

[2] Covers 55% forest area including most of the coniferous but only a small part of the non-coniferous forest area. Includes bark, branches and tops.

[3] Does not include bark.

[4] Conversion factors: 1 cubic foot = .028 cubic metre
1 acre = .405 hectare

Sources: FAO World Forest Inventory, 1963.
FAO Yearbook of Forest Products Statistics, 1969.

Area classification

Forest Land[1]	'000 acres
Suitable for regular harvest	588,293
Not suitable for regular harvest[2]	191,019
Reserved[3]	17,034
Total Forest Land	796,346
Wildland[4]	1,296,289
Agricultural Land[5]	162,473
Other (Urban, roads, etc.,)	8,938
Total Land Area	2,264,046
Water	200,846
Total Land and Water	**2,464,892**

Non-reserved Forest Land Areas	'000 acres Inventoried areas Mature[6]	Immature	Total	Total Non-Reserved
Newfoundland	3,457	2,038	5,495	30,193
Prince Edward Island	137	388	525	617
Nova Scotia	7,608	2,048	9,656[7]	9,615
New Brunswick	2,794	11,329	14,123	15,609
Quebec	84,398	69,567	153,965	171,765
Ontario	48,071	57,191	105,262	115,576
Manitoba	14,193	22,437	36,630	37,908
Saskatchewan	4,692	13,308	18,000	24,452
Alberta	4,826	35,390	40,216	62,227
British Columbia	61,615	61,379	122,994	134,838
Yukon Territory	(——— Not available ———)			51,968
Northwest Territories	(——— Not available ———)			124,544
Total Canada	**231,791**	**275,075**	**506,866**	**779,312**

[1] Land capable of producing stands of trees 4" D.B.H. and larger on 10% or more of the area. Shelterbelts and units of forest 5 acres or less and scattered are excluded. This land class does not include agricultural land currently in use, although capable of producing trees as above.

[2] Forest land with an extremely low growth capability.

[3] Forest land in parks, game refuges, water conservation areas and nature preserves, where, by legislation, wood production is not primary.

[4] Barrens, muskeg, rock and land with scrub and/or land with forest cover substandard to the category Forest Land as defined.

[5] Land improved or developed for crop production and unimproved land including rough pasture and areas occupied by buildings, etc.

[6] Includes overmature and uneven aged classes.

[7] Includes 41,000 acres of federal land designated for other uses.

Tenure and state

Non-Reserved Forest Land	'000 acres
Provincial Crown	
Allocated to wood production[1]	
Stocked[2]	325,245
Inadequately stocked	42,255
Not allocated to wood production	
Stocked	144,315
Inadequately stocked	23,422
Total Provincial Crown	**535,237**
Federal Crown	
Allocated to wood production	
Stocked	2,421
Inadequately stocked	725
Not allocated to wood production	
Stocked	176,365
Inadequately stocked	360
Total Federal Crown	**179,871**
Private	
Stocked	54,745
Inadequately stocked	9,459
Total Private	**64,204**
Total Non-Reserved Forest Land	**779,312**

[1] Forest land, licensed, leased and/or under sustained yield management and currently committed primarily to wood production.
[2] Supporting tree cover of sufficient density to produce an acceptable volume at the end of a rotation according to provincial standards.

Merchantable timber

Non-Reserved Inventoried Areas	'000,000 cubic feet	
	Conifers	Non-Conifers
Newfoundland[1]	4,010	—
Prince Edward Island	98	52
Nova Scotia	6,045	2,539
New Brunswick	11,947	4,921
Quebec	96,954	33,443
Ontario	66,593	44,830
Manitoba	9,991	2,763
Saskatchewan	9,913	7,087
Alberta	36,019	23,558
British Columbia[2]	261,313	7,322
Total[3]	**502,883**	**126,515**

	Total
Newfoundland[1]	4,010
Prince Edward Island	150
Nova Scotia	8,584
New Brunswick	16,868
Quebec	130,397
Ontario	111,423
Manitoba	12,754
Saskatchewan	17,000
Alberta	59,577
British Columbia[2]	268,635
Total[3]	**629,398**

[1] Excludes Labrador for which no data are available.
[2] Volumes of mature timber only.
[3] Excludes Yukon and Northwest Territories.

Annual forest depletion

Utilization	'000,000 cubic feet	
	Annual average 1960-69	
	Volume	%
Industrial		
Logs & bolts[1] — Domestic use	2,125	50.7
— Export	20	0.5
Pulpwood — Domestic use	1,148	27.4
— Export	101	2.4
Poles and piling	19	0.5
Round mining timber	6	0.1
Other primary products	33	0.8
Total industrial	3,452	82.4
Fuelwood (incl. wood for charcoal)	197	4.7
Total utilization	3,649	87.1
Forest Fire Losses	542	12.9
Total Depletion[2]	**4,191**	**100.0**

	Volume	1970 %
Industrial		
Logs & bolts[1] — Domestic use	2,614	58.4
— Export	57	1.3
Pulpwood — Domestic use	1,334	29.8
— Export	93	2.1
Poles and piling	8	0.2
Round mining timber	3	0.1
Other primary products	34	0.8
Total industrial	4,143	92.7
Fuelwood (incl. wood for charcoal)	145	3.2
Total utilization	4,288	95.9
Forest Fire Losses	185	4.1
Total Depletion[2]	**4,473**	**100.0**

[1] Includes some wood used in pulp manufacture.

[2] Does not include losses caused by insects, disease or natural mortality for which no reliable estimates are available.

Environment Canada Forestry Service

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Forest fire statistics

	Annual Average 1960-69	1970
Areas Burned	'000 acres	'000 acres
Merchantable timber	607	268
Young growth	596	1,195
Other protected lands	1,162	1,153
Total areas burned	**2,365**	**2,616**
Merchantable Timber Burned	'000,000 cu.ft.	'000,000 cu.ft.
All timber 4" dbh – total	**542**	**185**
Estimated Values Destroyed[1]	$000	$000
On forested areas	15,029	9,876
Other property	1,294	1,520
Total Estimated Values Destroyed	**16,323**	**11,396**

Fire By Causes	1969		1970	
	Number	%	Number	%
Recreation	1,345	20	1,901	21
Settlement	673	10	936	10
Woods operations	427	7	415	4
Railroads	477	7	554	6
Other industries	274	4	269	3
Incendiary	272	4	306	3
Miscellaneous known	987	15	1,272	14
Unknown	520	8	301	3
Total man-caused	4,975	75	5,954	64
Lightning	1,658	25	3,299	36
Total Fire By Causes	**6,633**	**100**	**9,253**	**100**

Costs Of Protection	1969	1970
	$000	$000
Costs of fire-fighting	$ 12,075	$ 23,994
Capital, maintenance & overhead	$ 34,620	$ 36,527
Total costs of Protection	**$ 46,695**	**$ 60,521**

[1] Based on prevailing stumpage rates only; damage to soil, site quality, stream-flow regulation, wildlife, recreational and similar values is not included.

Production data

Selected Major Forest Products	1969	1970
Lumber[1]	'000,000 board feet	
Softwoods	10,991	10,757
Hardwoods	547	514
Total Lumber	11,538	11,271
Wood Pulp	'000 tons	
Groundwood[2]	7,998	7,936
Dissolving and Special Alpha	500	453
Sulphite – bleached	753	753
– unbleached	2,041	2,062
Sulphate–bleached[3]	5,527	5,229
– unbleached	1,418	1,478
Semi-chemical	286	326
Screenings	67	71
Total Wood Pulp	18,590	18,308
Paper	'000 tons	
Newsprint	8,938	8,815
Book and Writing	759	905
Paperboards	1,907	1,850
All other paper	911	834
Total Paper	12,515	12,404

[1] All industries.
[2] Includes defibrated and exploded pulp.
[3] Includes semi-bleached and soda pulp.

Forest Industries

Employment, Salaries & Wages[2]	Employees		Salaries and Wages	
	Number		$000,000	
	1969	1970[1]	1969	1970[1]
Logging	54,945	52,230	409	412
Wood Industries				
Sawmills and planing mills	49,837	48,776	295	314
Shingle mills	1,689	1,450	12	12
Veneer and plywood mills	13,586	12,259	83	80
Sash, door and other millwork	14,840	11,037	84	64
Other wood industries (excl. furniture)	11,715	14,306	59	81
Head office personnel[3]	857	—	8	—
Total Wood Industries	92,524	87,828	541	551
Paper and Allied Industries				
Pulp and paper mills	75,427	80,371	612	701
Other paper industries	40,766	40,709	255	276
Head office personnel[3]	5,684	—	59	—
Total Paper & Allied Industries	121,877	121,080	926	977
Total Forest Industries	**269,346**	**261,138**	**1,876**	**1,940**

Value of Products[2]	Value Added[4]		Value of Shipments[5]	
	$000,000		$000,000	
	1969	1970[1]	1969	1970[1]
Logging	747	694	1,624	1,620
Wood Industries				
Sawmills and planing mills	558	439	1,267	1,135
Shingle mills	18	14	43	32
Veneer and plywood mills	139	106	305	262
Sash, door and other millwork	146	103	330	224
Other wood industries (excl. furniture)	103	140	205	297
Total Wood Industries	964	802	2,150	1,950
Paper and Allied Industries				
Pulp and paper mills	1,268	1,329	2,771	2,852
Other paper industries	480	486	1,063	1,080
Total Paper & Allied Industries	1,748	1,815	3,834	3,932
Total Forest Industries	**3,459**	**3,311**		

[1] Preliminary data.

[2] Based on total activity.

[3] Head office personnel not identifiable with a particular industry of the group in 1969.

[4] Based on total activity and is the gross or sale value, less cost of material, fuel, purchased electricity and process supplies consumed.

[5] Shipments of goods of own manufacture.

Exports

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Wood, Wood Products and Paper	Volume		Value	
			$000,000	
	1970	1971	1970	1971
Primary Products				
Logs and bolts — '000,000 fbm	285	173	28	17
Pulpwood, round—'000 rough cords	1,094	772	27	19
Pulpwood chips — '000 tons	971	847	11	17
Other			12	11
Total Primary Products			78	64
Wood Pulp	'000 tons			
Mechanical	277	232	17	15
Chemical	5,305	5,434	768	782
Total Wood Pulp	5,582	5,666	785	797
Paper and Paperboard	'000 tons			
Newsprint	8,090	7,798	1,110	1,084
Other paper and paperboard	1,022	1,166	161	169
Total Paper and Paperboard	9,112	8,964	1,271	1,253
Lumber	'000,000 fbm			
Softwoods	7,330	8,379	638	799
Hardwoods	136	146	25	31
Total Lumber	7,466	8,525	663	830
Veneer and Plywood	'000,000 sq. ft.			
Veneer, all thicknesses	1,026	1.176	28	32
Plywood ¼" basis	624	411	45	39
Total Veneer and Plywood			73	71
Other Wood and Paper Products			116	125
Total Wood, Wood Products and Paper			**2,986**	**3,140**
All Other Commodities			13,472	14,284
Total Domestic Exports[1]			**$16,458**	**$17,424**

[1] Goods wholly produced and imports further processed in Canada.